

# **ANALYTICAL REPORT**

Job Number: 720-27249-1

Job Description: Aspire Oakland

For:

ARCADIS U.S., Inc Formerly LFR, Inc. 1900 Powell St 12th Floor Emeryville, CA 94608-1827

Attention: Mr. Ron Goloubow

Approved for releas Afsaneh Salimpour Project Manager I 4/13/2010 5:43 PM

Afsaneh Salimpour Project Manager I afsaneh.salimpour@testamericainc.com 04/13/2010

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#### CA ELAP Certification # 2496

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The report shall not be reproduced except in full, without the written approval of the laboratory. The client, by accepting this report, also agrees not to alter any reports whether in the hard copy or electronic format and to use reasonable efforts to preserve the reports in the form and substance originally provided by TestAmerica.

A trip blank is required to be provided for volatile analyses. If trip blank results are not included in the report, either the trip blank was not submitted or requested to be analyzed.

# Job Narrative 720-27249-1

### Comments

No additional comments.

### Receipt

All samples were received in good condition within temperature requirements.

### Metals

Method(s) 6010B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for batch 69484 were outside control limits. The associated laboratory control sample (LCS) recovery met acceptance criteria.

No other analytical or quality issues were noted.

# **EXECUTIVE SUMMARY - Detections**

Client: ARCADIS U.S., Inc Formerly LFR, Inc.

Lab Sample ID	Client Sample ID		Reporting				
Analyte		Result / Qualifier	Limit	Units	Method		
720-27249-1	DRIVEWAY-50'						
Lead		12	1.9	mg/Kg	6010B		

Job Number: 720-27249-1

### **METHOD SUMMARY**

Client: ARCADIS U.S., Inc Formerly LFR, Inc.

Description	Lab Location	Method	Preparation Method
Matrix Solid			
Metals (ICP)	TAL SF	SW846 6010B	
Preparation, Metals	TAL SF		SW846 3050B

### Lab References:

TAL SF = TestAmerica San Francisco

# Method References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Job Number: 720-27249-1

# METHOD / ANALYST SUMMARY

Client: ARCADIS U.S., Inc Formerly LFR, Inc. Job Number: 720-27249-1

Method	Analyst	Analyst ID			
SW846 6010B	Vega, Anthony	AV			

# **SAMPLE SUMMARY**

Client: ARCADIS U.S., Inc Formerly LFR, Inc.

Job Number: 720-27249-1

			Date/Time	Date/Time
Lab Sample ID	Client Sample ID	Client Matrix	Sampled	Received
720-27249-1	DRIVEWAY-50'	Solid	04/08/2010 1550	04/08/2010 1750

# **Analytical Data**

Client: ARCADIS U.S., Inc Formerly LFR, Inc.

Job Number: 720-27249-1

Client Sample ID: DRIVEWAY-50'

Lab Sample ID: 720-27249-1 Date Sampled: 04/08/2010 1550

Client Matrix: Solid Date Received: 04/08/2010 1750

6010B Metals (ICP)

Method: 6010B Analysis Batch: 720-69484 Instrument ID: Thermo ICP

Preparation: 3050B Prep Batch: 720-69438 Lab File ID: N/A

Dilution: 4.0 Initial Weight/Volume: 1.05 g
Date Analyzed: 04/13/2010 1431 Final Weight/Volume: 50 mL

Date Prepared: 04/13/2010 0921

Analyte DryWt Corrected: N Result (mg/Kg) Qualifier RL
Lead 12 1.9

# **DATA REPORTING QUALIFIERS**

Client: ARCADIS U.S., Inc Formerly LFR, Inc. Job Number: 720-27249-1

Lab Section	Qualifier	Description	
Metals			
	F	MS or MSD exceeds the control limits	

Job Number: 720-27249-1

Client: ARCADIS U.S., Inc Formerly LFR, Inc.

# **QC Association Summary**

		Report			
Lab Sample ID	Client Sample ID	Basis	Client Matrix	Method	Prep Batch
Metals					
Prep Batch: 720-69438					
LCS 720-69438/2-A	Lab Control Sample	Т	Solid	3050B	
_CSD 720-69438/3-A	Lab Control Sample Duplicate	Т	Solid	3050B	
LCSSRM 720-69438/25-A	LCS-Standard Reference Material	Т	Solid	3050B	
MB 720-69438/1-A	Method Blank	T	Solid	3050B	
720-26958-B-1-A MS	Matrix Spike	T	Solid	3050B	
720-26958-B-1-B MSD	Matrix Spike Duplicate	Т	Solid	3050B	
720-27249-1	DRIVEWAY-50'	Т	Solid	3050B	
Analysis Batch:720-69484					
LCS 720-69438/2-A	Lab Control Sample	Т	Solid	6010B	720-69438
_CSD 720-69438/3-A	Lab Control Sample Duplicate	T	Solid	6010B	720-69438
CSSRM 720-69438/25-A	LCS-Standard Reference Material	Т	Solid	6010B	720-69438
MB 720-69438/1-A	Method Blank	Т	Solid	6010B	720-69438
720-26958-B-1-A MS	Matrix Spike	Т	Solid	6010B	720-69438
720-26958-B-1-B MSD	Matrix Spike Duplicate	Т	Solid	6010B	720-69438
720-27249-1	DRIVEWAY-50'	Т	Solid	6010B	720-69438

### Report Basis

T = Total

### **Quality Control Results**

0.50

Client: ARCADIS U.S., Inc Formerly LFR, Inc. Job Number: 720-27249-1

Method Blank - Batch: 720-69438 Method: 6010B Preparation: 3050B

Lab Sample ID: MB 720-69438/1-A Analysis Batch: 720-69484 Instrument ID: Thermo ICP Client Matrix: Solid Lab File ID: N/A

Prep Batch: 720-69438 Dilution: 1.0 Units: mg/Kg Initial Weight/Volume:

1.00 g 04/13/2010 1406 Date Analyzed: Final Weight/Volume: 50 mL Date Prepared: 04/13/2010 0921

ND

Analyte Result Qual RL

LCS-Standard Reference Material - Batch: 720-69438 Method: 6010B

Lead

Date Prepared:

Preparation: 3050B

Analysis Batch: 720-69484 Lab Sample ID: LCSSRM 720-69438/25-A Instrument ID: Thermo ICP

Client Matrix: Solid Prep Batch: 720-69438 Lab File ID: N/A

Dilution: 1.0 Units: mg/Kg Initial Weight/Volume: 1.03 g 04/13/2010 1608 Date Analyzed: Final Weight/Volume: 50 mL 04/13/2010 0921 Date Prepared:

Analyte Spike Amount Result % Rec. Limit Qual 62 - 113 Lead 44.1 37.3 85

Lab Control Sample/ Method: 6010B Lab Control Sample Duplicate Recovery Report - Batch: 720-69438 Preparation: 3050B

LCS Lab Sample ID: LCS 720-69438/2-A Analysis Batch: 720-69484 Instrument ID: Thermo ICP

Client Matrix: Solid Prep Batch: 720-69438 Lab File ID:

Dilution: 1.0 Units: mg/Kg Initial Weight/Volume: 1.00 g

04/13/2010 1410 Date Analyzed: Final Weight/Volume: 50 mL 04/13/2010 0921 Date Prepared:

LCSD Lab Sample ID: LCSD 720-69438/3-A Analysis Batch: 720-69484 Instrument ID: Thermo ICP

Client Matrix: Solid Prep Batch: 720-69438 Lab File ID: N/A

1.00 g Dilution: 1.0 Units: mg/Kg Initial Weight/Volume: 04/13/2010 1414 Date Analyzed: Final Weight/Volume: 50 mL 04/13/2010 0921

% Rec. LCS RPD Analyte **LCSD** Limit RPD Limit LCS Qual LCSD Qual Lead 102 99 80 - 120 3 20

### **Quality Control Results**

Client: ARCADIS U.S., Inc Formerly LFR, Inc.

Job Number: 720-27249-1

Matrix Spike/ Method: 6010B

Matrix Spike Duplicate Recovery Report - Batch: 720-69438 Preparation: 3050B

MS Lab Sample ID: 720-26958-B-1-A MS Analysis Batch: 720-69484 Instrument ID: Thermo ICP

Client Matrix: Solid Prep Batch: 720-69438 Lab File ID: N/A

 Dilution:
 4.0
 Initial Weight/Volume:
 1.04 g

 Date Analyzed:
 04/13/2010 1418
 Final Weight/Volume:
 50 mL

 Date Prepared:
 04/13/2010 0921

MSD Lab Sample ID: 720-26958-B-1-B MSD Analysis Batch: 720-69484 Instrument ID: Thermo ICP

Client Matrix: Solid Prep Batch: 720-69438 Lab File ID: N/A

Dilution: 4.0 Initial Weight/Volume: 1.01 g

 Date Analyzed:
 04/13/2010
 1422
 Final Weight/Volume:
 50 mL

 Date Prepared:
 04/13/2010
 0921

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 MSD
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# **Login Sample Receipt Check List**

Client: ARCADIS U.S., Inc Formerly LFR, Inc.

List Source: TestAmerica San Francisco

Job Number: 720-27249-1

Login Number: 27249 Creator: Hoang, Julie List Number: 1

Question	T / F/ NA Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A
The cooler's custody seal, if present, is intact.	N/A
The cooler or samples do not appear to have been compromised or tampered with.	True
Samples were received on ice.	True
Cooler Temperature is acceptable.	True
Cooler Temperature is recorded.	True
COC is present.	True
COC is filled out in ink and legible.	True
COC is filled out with all pertinent information.	True
There are no discrepancies between the sample IDs on the containers and the COC.	True
Samples are received within Holding Time.	True
Sample containers have legible labels.	True
Containers are not broken or leaking.	True
Sample collection date/times are provided.	True
Appropriate sample containers are used.	True
Sample bottles are completely filled.	True
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True
If necessary, staff have been informed of any short hold time or quick TAT needs	True
Multiphasic samples are not present.	True
Samples do not require splitting or compositing.	True
Is the Field Sampler's name present on COC?	True
Sample Preservation Verified	True